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TEXTILE ORGANON

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MAN-MADE FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Man-Made Fiber, Cotton and Wool End Use Survey.
- Man-Made Fiber & Semimanufactured Imports 1983 -1987 . . . see page 202.

This month's issue of the ***Textile Organon*** contains our annual report of U.S. man-made, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 39 years 1949-1987.

The objective of this survey is to measure the amount of raw man-made, cotton and wool fiber required to produce the various end use items. Many other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no poundage data for these fibers are included in the end usages.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item will be noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. There are new definitions for waste, apparel, home furnishings and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon*** as follows:

Years	*Textile Organon Issues*
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987

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TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

	TOTAL FIBER								MAN-MADE FIBER							
	MILLION POUNDS				% OF TOTAL END USE [b]				MILLION POUNDS				% OF TOTAL END USE [b]			
END USE	1984	1985	1986	1987	1984	1985	1986	1987	1984	1985	1986	1987	1984	1985	1986	1987
APPAREL	4389	4282	4758	5393	*39*	*37*	*38*	*40*	2500	2375	2638	2796	*31*	*29*	*30*	*31*
HOME FURNISHINGS	1849	1895	1938	2019	*16*	*17*	*16*	*15*	965	965	900	872	*12*	*12*	*10*	*10*
FLOOR COVERINGS	2287	2565	2800	2975	*20*	*22*	*22*	*22*	2259	2538	2767	2934	*28*	*31*	*31*	*32*
INDUSTRIAL & OTHER CONS. - TYPE PROD	2505	2468	2620	2620	*22*	*21*	*21*	*20*	2108	2080	2238	2234	*26*	*25*	*26*	*24*
EXPORTS	280	328	384	406	*3*	*3*	*3*	*3*	191	210	232	264	*3*	*3*	*3*	*3*
TOTAL END USE	**11310**	**11538**	**12500**	**13413**	***100***	***100***	***100***	***100***	**8023**	**8168**	**8775**	**9100**	***100***	***100***	***100***	***100***

All data are drawn from the U.S. End Use Summary table on page 200.

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Includes domestic shipments, fiber, yarn, fabric imports and waste.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

Textile Organon

A Monthly Review

September 1988

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, man-made, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and man-made fiber consumption by end use for the years 1984, 1985, 1986 and 1987. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home furnishings, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 3, 4 & 5 will be discussed below under the heading "End Use Versus Available Supply."

Tables 7 through 10 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1983-1987. The major change in Tables 7-10 this year is: Home Furnishings Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 8).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The man-made fiber data are presented in two general categories. Cellulosic, which includes rayon and acetate, and Noncellulosic, which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 210 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

The man-made fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products. For cotton, the data of the National Cotton Council, primarily from its publication "Cotton Counts Its Customers", and for wool, the Wool Bureau and government data as well as estimates from other trade sources were employed.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the man-made fiber quantities, is a significant and measured part of the total end use.

END USE VERSUS AVAILABLE SUPPLY

Available Supply (mill consumption plus semimanufactured imports) is compared with End Use Consumption, in Table 4 on page 201. There are several reasons for the differences between these two series, many of which are related to the specific fibers.

COTTON: The National Cotton Council reports that there are two principal reasons why end use consumption is below available supply: (1) many small end uses are not included in the survey and (2) estimates of materials consumed are based on "typical" cotton yarns and fabrics, not on the actual weights of every type of yarn and fabric consumed in the various end uses.

Timing and inventory changes also play a significant role. For example, some raw cotton correctly reported as "consumed" by the Census Bureau in a calendar year is not actually incorporated into end products until the next year because of time lags and inventory fluctuations involved in moving from raw fiber in the bale to a finished garment or other textile product. Similarly, an indeterminate amount of cotton consumed in any year may not be embodied in finished products until the following year.

As noted, the cotton series presented in this survey are mainly those of the National Cotton Council as published in its annual survey "Cotton Counts Its Customers" (1988 and earlier editions).

WOOL: Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool poundages used in Home Furnishings (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 201, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1983-1987. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

Continued On Page 200

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MAN-MADE FIBERS			MAN-MADE FIBER DETAIL								
													CELLULOSIC					NONCELLULOSIC			
													TOTAL			YARN	STAPLE	TOTAL			YARN	STAPLE
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	LBS	LBS	%[a]	%[b]	LBS	LBS
APPAREL																						
1983	4565	100	40.5	1646	36.0	56.1	153	3.4	75.0	2766	60.6	34.0	228	5.0	39.6	154	74	2538	55.6	33.6	1173	1365
1984	4389	100	38.8	1718	39.1	56.2	171	3.9	74.0	2500	57.0	31.2	239	5.5	41.5	153	86	2261	51.5	30.4	1117	1144
1985	4282	100	37.1	1766	41.2	55.6	141	3.3	72.7	2375	55.5	29.1	208	4.9	38.4	141	67	2167	50.6	28.4	1086	1081
1986	4758	100	38.0	1961	41.2	55.9	159	3.3	73.6	2638	55.5	30.1	250	5.3	41.3	151	99	2388	50.2	29.2	1040	1348
1987	5393	100	40.2	2440	45.2	59.7	157	3.0	69.2	2796	51.8	30.7	236	4.4	40.3	123	113	2560	47.4	30.2	1138	1422
HOME FURNISHINGS																						
1983	1775	100	15.8	798	45.0	27.2	19	1.0	9.3	958	54.0	11.8	134	7.5	23.3	28	106	824	46.5	10.9	260	564
1984	1849	100	16.3	863	46.7	28.2	21	1.1	9.1	965	52.2	12.0	133	7.2	23.1	27	106	832	45.0	11.2	258	574
1985	1895	100	16.4	912	48.1	28.7	18	0.9	9.3	965	51.0	11.8	125	6.6	23.1	18	107	840	44.4	11.0	293	547
1986	1938	100	15.5	1020	52.6	29.1	18	0.9	8.3	900	46.5	10.3	131	6.8	21.6	17	114	769	39.7	9.4	245	524
1987	2019	100	15.1	1129	55.9	27.6	18	0.9	7.9	872	43.2	9.6	139	6.9	23.7	22	117	733	36.3	8.6	239	494
FLOOR COVERINGS																						
1983	2207	100	19.6	14	0.6	0.5	13	0.6	6.4	2180	98.8	26.8	1	0.1	0.2	0	1	2179	98.7	28.9	1064	1115
1984	2287	100	20.2	14	0.6	0.5	14	0.6	6.1	2259	98.8	28.2	1	0.1	0.1	0	1	2258	98.7	30.3	1162	1096
1985	2565	100	22.2	15	0.6	0.5	12	0.5	6.2	2538	98.9	31.1	1	0	0.2	0	1	2537	98.9	33.3	1399	1138
1986	2800	100	22.4	16	0.6	0.4	17	0.6	7.9	2767	98.8	31.5	2	0.1	0.3	0	2	2765	98.7	33.8	1535	1230
1987	2975	100	22.2	17	0.6	0.4	24	0.8	10.6	2934	98.6	32.2	1	0	0.2	0	1	2933	98.6	34.4	1614	1319
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1983	2434	100	21.6	382	15.7	13.0	14	0.6	6.9	2038	83.7	25.1	196	8.0	34.0	23	173	1842	75.7	24.4	987	855
1984	2505	100	22.1	376	15.0	12.3	21	0.8	9.1	2108	84.2	26.3	187	7.5	32.5	28	159	1921	76.7	25.8	998	923
1985	2468	100	21.4	375	15.1	11.8	13	0.5	6.7	2080	84.4	25.5	192	7.9	35.4	30	162	1888	76.5	24.8	969	919
1986	2620	100	21.0	369	14.1	10.5	13	0.5	6.0	2238	85.4	25.5	204	7.8	33.7	28	176	2034	77.6	24.9	1107	927
1987	2620	100	19.5	373	14.2	9.1	13	0.5	5.7	2234	85.3	24.6	188	7.2	32.1	22	166	2046	78.1	24.0	1063	983
EXPORTS OF DOMESTIC PRODUCTS																						
1983	284	100	2.5	93	32.7	3.2	5	1.8	2.4	186	65.5	2.3	17	6.0	2.9	11	6	169	59.5	2.2	70	99
1984	280	100	2.6	85	30.4	2.8	4	1.4	1.7	191	68.2	2.3	16	5.7	2.8	10	6	175	62.5	2.3	73	102
1985	328	100	2.9	108	33.0	3.4	10	3.0	5.1	210	64.0	2.5	16	4.9	2.9	9	7	194	59.1	2.5	76	118
1986	384	100	3.1	143	37.2	4.1	9	2.4	4.2	232	60.4	2.6	19	4.9	3.1	11	8	213	55.5	2.7	88	125
1987	406	100	3.0	127	31.3	3.2	15	3.7	6.6	264	65.0	2.9	22	5.4	3.7	13	9	242	59.6	2.8	100	142
TOTAL END USE CONSUMPTION																						
1983	11265	100	100	2933	26.0	100	204	1.8	100	8128	72.2	100	576	5.2	100	216	360	7552	67.0	100	3554	3998
1984	11310	100	100	3056	27.0	100	231	2.1	100	8023	70.9	100	576	5.1	100	218	358	7447	65.8	100	3608	3839
1985	11538	100	100	3176	26.8	100	194	1.7	100	8168	71.5	100	542	4.7	100	198	344	7626	66.8	100	3823	3803
1986	12500	100	100	3509	27.3	100	216	1.7	100	8775	71.0	100	606	4.9	100	207	399	8169	66.1	100	4015	4154
1987	13413	100	100	4086	29.8	100	227	1.7	100	9100	68.5	100	586	4.4	100	180	406	8514	64.1	100	4154	4360

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

Continued From Previous Page

MAN-MADE FIBERS: As will be seen, there is relatively good correlation between End Use Consumption and Available Supply.

The fluctuations of producers' domestic shipments, as well as imports, from year to year are significant. In years when there is a large increase in domestic shipments plus imports of fiber (Available Supply), it is probable that some of the increase went into mill and manufactures' inventories rather than directly into end uses. Both warehouse inventories of yarn and staple and goods-in-process inventories would be involved. For example, it is likely that some of the large increase in the Available Supply between 1984-1985 was absorbed in inventories at various stages of the production process. In a period of slower activity, mills and manufactures reduce their warehouse inventories and work-in-process to reflect the lower level of activity.

Continued On Page 202

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	MAN-MADE FIBERS								COTTON			WOOL					
	MILL CONSUMPTION																
	CELLULOSIC			NONCELLULOSIC													
YEAR	YARN	STAPLE [b]	TOTAL	YARN	STAPLE [b]	TOTAL	IMPORTS [c]	TOTAL	MILL CONS. [a]	IMPORTS [d]	TOTAL	MILL CONS. [a]	REPRO-CESSED & REUSED [e]	COTTON SYSTEM [e]	IMPORTS [d]	TOTAL	AVAIL-ABLE SUPPLY
1983	241.8	356.8	598.6	3433.7	3962.2	7395.9	196.0	8190.5	2795.7	380.7	3176.4	162.5	8.1	3.3	36.5	210.4	11577.3
1984	228.3	359.6	587.9	3398.6	3803.0	7201.6	242.4	8031.9	2668.2	505.4	3173.7	163.2	7.6	5.5	55.6	231.9	11437.5
1985	201.0	344.6	545.6	3663.8	3826.1	7489.9	295.2	8330.7	2796.0	493.5	3289.5	134.7	5.3	4.2	50.9	195.5	11815.3
1986	209.1	399.2	608.3	3747.3	4098.3	7845.6	341.3	8795.2	3301.7	638.8	3940.5	164.5	9.5	4.1	39.6	217.7	12953.4
1987	179.6	406.0	585.6	3927.1	4331.2	8258.3	303.6	9147.5	3742.9	784.4	4527.3	167.6	7.9	6.9	44.1	226.5	13901.3

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Mill Consumption is taken from page 74 of the April 1988 ***Textile Organon***, plus subsequent revisions.

b. Man-made staple includes waste.

c. Imports are taken from page 202 of this issue.

d. Imports of Cotton and Wool are taken from page 180 of the August 1988 ***Textile Organon*** issue.

e. These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system are not included in the mill consumption series for wool. However, they are considered here as part of the available supply of wool as shown in the table below.

TABLE 4:
END USE VERSUS AVAILABLE SUPPLY - COMPARISON OF TABLE 2 WITH TABLE 3
MILLION POUNDS & *PERCENT*

	1983			1984			1985			1986			1987		
	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]
COTTON	3177	2933	*92.3*	3174	3056	*96.3*	3290	3176	*96.5*	3940	3509	*89.1*	4527	4086	*90.3*
WOOL	210	204	*97.1*	232	231	*99.6*	195	194	*99.5*	218	216	*99.1*	227	227	*100.0*
TOTAL COTTON & WOOL	**3387**	**3137**	***92.6***	**3406**	**3287**	***96.5***	**3485**	**3370**	***96.7***	**4158**	**3725**	***89.6***	**4754**	**4313**	***90.7***
CELLULOSIC - YARN [d]	242	216	*89.3*	228	219	*96.1*	201	198	*98.5*	209	207	*99.0*	180	180	*100.0*
- STAPLE [e]	360	360	*100.0*	360	358	*99.4*	345	344	*99.7*	396	399	*100.0*	406	406	*100.0*
NONCELL- YARN [d]	3591	3535	*98.4*	3595	3595	*100.0*	3914	3823	*97.7*	4024	4015	*99.8*	4192	4154	*99.1*
- STAPLE [e]	3997	3972	*99.4*	3848	3839	*99.8*	3870	3803	*98.3*	4163	4154	*99.8*	4369	4360	*99.8*
TOTAL MAN-MADE FIBER	**8190**	**8083**	***98.7***	**8031**	**8011**	***99.8***	**8330**	**8168**	***98.1***	**8795**	**8775**	***99.8***	**9147**	**9100**	***99.5***
TOTAL FIBERS	**11577**	**11220**	***96.9***	**11437**	**11298**	***98.8***	**11815**	**11538**	***97.7***	**12953**	**12500**	***96.5***	**13901**	**13413**	***96.5***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Mill consumption plus the imports of semimanufactured products - from Table 3 above.

b. End use from the summary table on page 200.

c. End use as a percentage of Available.

d. Includes monofilaments.

e. Includes tow, fiberfill and waste.

TABLE 5:
MAN-MADE FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	1983	1984	1985	1986	1987
CELLULOSIC FIBERS					
YARN	8.7	10.0	13.9	17.0	12.8
STAPLE	13.5	17.0	12.3	17.4	13.8
WASTE	0.3	0.5	0.5	0.1	0.1
SUBTOTAL ABOVE	**22.5**	**27.5**	**26.7**	**34.5**	**26.7**
NONCELLULOSIC FIBERS					
YARN - SINGLES					
NYLON - TEXTURED	5.1	18.0	32.4	36.7	28.8
- OTHER	14.8	30.2	18.4	22.5	22.8
POLYESTER - TEXTURED	2.2	10.8	16.6	14.6	15.6
- OTHER	13.6	15.7	16.7	22.5	19.4
OTHER - TEXTURED	7.7	8.9	14.7	20.5	24.1
- OTHER	2.7	2.5	2.5	5.1	6.8
MONOFILAMENTS	1.7	2.9	2.1	2.7	3.8
STRIPS, OVER $1/LB	0.6	1.0	1.2	1.5	2.6
SUBTOTAL ABOVE	**48.4**	**90.0**	**104.6**	**126.1**	**123.9**
STAPLE [a] - NYLON	46.8	61.4	68.1	90.5	71.2
- POLYESTER	23.6	30.0	31.8	43.1	73.9
- ACRYLIC	20.3	20.4	25.1	30.5	28.7
- OLEFIN	1.1	2.2	5.7	1.9	0.5
- OTHER	9.7	17.1	28.7	16.8	14.7
SUBTOTAL ABOVE	**101.5**	**131.1**	**159.4**	**182.8**	**189.0**
WASTE, NOT ADVANCED - NYLON	26.8	31.2	27.2	22.4	26.9
- POLYESTER	13.0	8.0	7.1	6.3	9.2
- ACRYLIC	0.3	0.3	0.3	0.3	0.3
- OTHER	2.7	4.0	2.1	8.4	4.7
NOILS & GARNETTED FIBERS	0.2	0.4	0.2	0.2	0.2
OTHER WASTE, ADVANCED	3.1	6.7	3.8	2.7	5.7
SUBTOTAL ABOVE	**46.1**	**50.6**	**40.7**	**40.3**	**47.0**
TOTAL FIBER ABOVE [b]	**218.5**	**299.2**	**331.4**	**383.7**	**386.6**
SEMIMANUFACTURES					
SLIVER, TOPS & ROVING	4.9	4.7	2.1	3.4	5.8
YARNS, THROWN OR PLIED	10.7	15.4	23.7	23.6	13.7
SPUN YARNS	39.0	46.3	45.4	64.6	63.5
SEWING THREAD & HANDWORK YARN	3.4	5.7	9.7	4.8	8.9
WOVEN FABRICS	123.2	154.9	186.2	207.2	182.5
NARROW FABRICS	12.7	12.4	18.4	25.3	14.6
KNIT FABRIC	2.2	3.0	9.7	12.4	14.6
SUBTOTAL ABOVE	**196.1**	**242.4**	**295.2**	**341.3**	**303.6**
GLASS FIBER	20.0	23.1	34.7	24.4	29.5
TOTAL SEMIMANUFACTURES ABOVE [c]	**216.1**	**265.5**	**329.9**	**365.7**	**333.1**
GRAND TOTAL ABOVE	**434.6**	**564.7**	**661.3**	**749.4**	**719.7**

a. Includes grouped filaments.
b. **SOURCE:** U.S. Bureau of the Census.
c. **SOURCE:** U.S. Department of Agriculture, *Cotton and Wool Outlook Situation.*

For imports of fiber, the data are taken from the monthly summaries in each ***Textile Organon.*** A listing of the commodity numbers used may be found on page 214 of this issue under the monthly import table.

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UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for man-made fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 206

TABLE 6:
EXPORTS OF SEMIMANUFACTURED PRODUCTS [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b] TOTAL	CELLULOSIC YARN	CELLULOSIC STAPLE	NONCELLULOSIC YARN	NONCELLULOSIC STAPLE	COTTON	WOOL
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1983	r282.2	r183.9	11.0	6.0	70.0	r96.9	93.0	5.3
1984	r280.4	190.9	9.4	6.1	73.0	102.4	r85.0	4.5
1985	328.5	209.7	9.6	6.6	75.8	117.7	108.1	10.7
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
1987	405.8	263.8	12.5	8.6	100.3	142.4	126.9	15.1
80 YARN, THREAD, ETC[c]								
1983	r70.5	r35.3	e	2.0	e	r33.3	31.2	4.0
1984	r61.4	38.3	e	2.6	e	35.7	r20.2	2.9
1985	86.0	51.1	e	2.7	e	48.4	25.8	9.1
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
81 WOVEN & KNIT FABRIC[c]								
1983	207.7	148.6	11.0	4.0	70.0	63.6	61.8	1.3
1984	219.0	152.6	9.4	3.5	73.0	66.7	64.8	1.6
1985	242.5	158.6	9.6	3.9	75.8	69.3	82.3	1.6
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3
1987	319.6	209.9	12.5	5.8	100.3	91.3	107.3	2.4

SOURCE: U.S. Department of Agriculture, *Cotton & Wool Outlook Situation.*

[a] This is a non-add section since the volumes are included in Tables 2 and 7 through 10.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 210.

These exports do not duplicate the end use poundages that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of man-made fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL								
1983	4565.3	2766.3	153.9	73.9	1173.3	1365.2	1646.0	153.0
1984	4389.2	2499.9	153.5	86.1	1116.6	1143.7	1718.6	170.7
1985	r4282.8	2374.7	140.7	66.9	1086.5	1080.6	r1766.4	141.7
1986	r4756.9	r2637.3	150.8	98.9	1039.7	r1347.9	r1961.0	r158.6
1987	5392.2	2795.5	123.4	112.8	1138.0	1421.6	2440.0	156.7
40 SHEER HOSIERY (W)*								
1983	80.7	77.2	--	--	77.2	--	3.5	--
1984	86.0	82.6	--	--	82.6	--	3.4	--
1985	86.4	83.0	--	--	83.0	--	3.4	--
1986	90.7	87.2	--	--	87.2	--	3.5	--
1987	95.0	91.3	--	--	91.3	--	3.7	--
19,41 ANKLETS & SOCKS (MW)*								
1983	195.2	152.6	--	0.5	65.0	87.1	39.6	3.0
1984	190.5	131.5	--	0.5	59.5	71.5	55.6	3.4
1985	r189.3	122.7	--	0.4	56.9	65.4	r63.9	2.7
1986	r206.0	127.7	c	0.4	57.3	70.0	r74.5	3.8
1987	199.8	112.8	c	0.4	59.0	53.4	83.2	3.8
8,29 SWEATERS & RELATED ACCESSORIES								
1983	142.9	104.8	--	1.2	0.4	103.2	20.1	18.0
1984	167.4	113.7	--	1.2	0.5	112.0	33.7	20.0
1985	r186.9	110.3	--	1.2	0.6	108.5	r59.8	16.8
1986	r263.3	r156.8	--	1.5	0.4	r154.9	r87.5	19.0
1987	248.8	144.8	--	0.3	0.3	144.2	84.7	19.3
57 CRAFT & HANDWORK YARNS*								
1983	106.1	97.4	--	0.1	--	97.3	4.0	4.7
1984	90.9	82.1	--	0.8	--	81.3	3.5	5.3
1985	r92.1	85.1	--	0.1	0.3	84.7	r2.7	4.3
1986	r90.9	82.4	1.2	0.2	c	81.0	r4.5	4.0
1987	80.8	72.0	0.9	0.2	c	70.9	4.8	4.0
16-18 UNDERWEAR & NIGHTWEAR (M)*								
1983	245.7	96.8	--	--	14.5	82.3	147.9	1.0
1984	268.9	90.5	--	--	9.9	80.6	177.4	1.0
1985	264.0	83.6	--	--	8.0	75.6	179.6	0.8
1986	r313.3	r108.8	--	--	r12.5	96.3	r204.3	0.2
1987	316.3	100.0	--	--	10.5	89.5	216.1	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1983	196.6	153.0	12.5	--	105.0	35.5	42.6	1.0
1984	178.0	130.7	8.6	--	99.9	22.2	46.3	1.0
1985	r189.9	136.7	6.8	--	105.2	24.7	r52.4	0.8
1986	r190.0	128.9	8.0	--	94.8	26.1	r60.9	0.2
1987	191.1	123.7	1.9	--	92.0	29.8	67.2	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1983	92.5	74.8	39.0	--	22.9	12.9	15.1	2.6
1984	99.6	79.6	41.5	--	23.7	14.4	17.1	2.9
1985	r84.9	70.6	37.2	--	20.3	13.1	r12.0	2.3
1986	r91.0	73.8	31.2	--	23.5	19.1	r14.9	2.3
1987	80.7	61.7	19.7	--	22.9	19.1	16.7	2.3

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
54a HIGH PILE FABRICS								
1983	73.8	73.8	--	0.6	15.5	57.7	--	--
1984	61.4	61.4	--	0.3	9.7	51.4	--	--
1985	57.1	57.1	--	--	6.4	50.7	--	--
1986	59.0	59.0	--	--	10.6	48.4	--	--
1987	67.9	67.9	--	2.0	15.4	50.5	--	--
54b FABRICS FOR LINING*								
1983	139.2	99.7	66.7	1.0	24.0	8.0	36.6	2.9
1984	153.7	109.6	79.8	1.9	21.7	6.2	40.9	3.2
1985	r146.2	103.5	74.2	1.5	17.6	10.2	r40.0	2.7
1986	r178.4	133.9	98.3	3.6	18.5	13.5	r41.7	2.8
1987	184.0	136.1	90.4	5.8	23.6	16.3	45.0	2.9
43 APPAREL LACE (W)*								
1983	8.4	6.9	--	--	6.9	--	1.5	--
1984	5.5	4.0	--	--	4.0	--	1.5	--
1985	6.1	4.6	--	--	4.6	--	1.5	--
1986	4.3	2.8	--	--	2.8	--	1.5	--
1987	3.9	2.4	--	--	2.4	--	1.5	--
56a NARROW FABRICS*								
1983	49.7	24.7	1.7	--	20.8	2.2	25.0	--
1984	47.9	21.8	0.7	--	19.0	2.1	26.1	--
1985	46.9	23.3	1.5	--	20.1	1.7	23.6	--
1986	59.9	35.1	2.1	--	30.1	2.9	24.8	--
1987	77.7	51.6	2.2	--	46.4	3.0	26.1	--
TOPWEIGHT FABRICS*								
1983	1143.2	692.2	24.5	40.7	214.5	412.5	446.4	4.6
1984	1032.5	547.6	18.4	45.7	178.0	305.5	479.7	5.2
1985	r940.4	496.2	16.5	35.7	173.0	271.0	r440.1	4.1
1986	r1100.4	557.1	7.5	52.1	158.5	339.0	r539.7	3.6
1987	1466.0	700.1	5.6	49.3	184.3	460.9	762.2	3.7
BOTTOMWEIGHT FABRICS*								
1983	2048.5	1105.4	9.5	29.8	603.6	462.5	827.9	115.2
1984	1959.3	1037.8	4.5	35.7	605.1	392.5	792.8	128.7
1985	r1946.8	990.8	4.5	27.8	587.5	371.0	r848.8	107.2
1986	r2063.9	1075.2	2.5	40.6	540.1	492.0	r866.0	r122.7
1987	2335.2	1122.3	2.4	53.3	586.6	480.0	1092.6	120.3
OTHER APPAREL & ACCESSORIES (MW)*								
1983	42.8	7.0	--	--	3.0	4.0	35.8	c
1984	47.6	7.0	--	--	3.0	4.0	40.6	c
1985	r45.8	7.2	--	0.2	3.0	4.0	r38.6	c
1986	r45.8	8.6	--	0.5	3.4	4.7	r37.2	c
1987	45.0	8.8	--	1.5	3.3	4.0	36.2	c

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Furnishings, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 210.

TABLE 8:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS[a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL HOME FURNISHINGS								
1983	1774.7	957.8	27.7	106.3	260.2	563.6	797.8	19.1
1984	1849.7	965.4	26.5	106.1	258.6	574.2	863.0	21.3
1985	r1895.4	966.4	18.5	107.1	293.4	547.4	r911.3	17.7
1986	r1937.5	900.0	16.8	113.9	244.9	524.4	r1019.9	17.6
1987	2018.9	872.3	21.8	117.2	239.2	494.1	1128.6-	18.0
45 BEDSREADS & QUILTS*								
1983	140.8	91.4	6.0	6.2	16.0	63.2	49.4	--
1984	134.1	81.2	4.0	6.0	15.2	56.0	52.9	--
1985	r134.8	77.2	c	6.0	17.2	54.0	r57.6	--
1986	r142.6	80.0	0.2	6.3	19.1	54.6	r62.6	--
1987	167.0	93.8	--	3.3	20.5	70.0	73.2	--
46 BLANKETS & BLANKETING*								
1983	70.3	57.2	--	c	1.0	56.2	8.6	4.5
1984	66.8	50.9	--	0.2	1.0	49.7	10.9	5.0
1985	r74.8	54.6	--	0.2	--	54.4	r16.1	4.1
1986	r75.7	51.1	--	0.2	--	50.9	r20.3	4.3
1987	78.4	51.8	--	0.2	--	51.6	22.5	4.1
47 SHEETS & OTHER BEDDING*								
1983	511.7	299.3	0.5	11.6	79.6	207.6	212.4	--
1984	516.3	300.0	0.5	15.0	75.7	208.8	216.3	--
1985	r493.4	269.3	1.5	12.5	77.7	177.6	r224.1	--
1986	r504.4	254.8	1.9	12.7	70.1	170.1	r249.6	--
1987	494.8	235.2	1.5	7.2	59.7	166.8	259.6	--
48 TOWELS & TOWELING*								
1983	379.8	36.0	--	0.3	1.7	34.0	343.8	--
1984	405.9	30.3	--	0.7	0.6	29.0	375.6	--
1985	r414.5	22.3	--	0.9	0.2	21.2	r392.2	--
1986	r472.9	31.9	--	0.5	0.2	31.2	r441.0	--
1987	518.1	34.2	--	0.1	0.5	33.6	483.9	--
56b NARROW FABRICS*								
1983	5.8	2.1	--	--	0.3	1.8	3.7	--
1984	4.3	0.5	--	--	c	0.5	3.8	--
1985	4.8	1.2	--	--	1.2	--	3.6	--
1986	4.1	0.3	--	--	0.2	0.1	3.8	--
1987	6.2	2.2	--	--	1.7	0.5	4.0	--

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LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 8:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
51 CURTAINS & DRAPERY [a]								
1983	226.9	163.2	14.0	47.8	44.8	56.6	63.7	--
1984	247.4	179.7	13.4	44.3	47.1	74.9	67.7	--
1985	242.4	172.5	14.4	44.4	43.7	70.0	69.9	--
1986	272.6	190.2	14.3	48.9	45.2	81.8	82.4	--
1987	263.9	163.1	19.7	52.2	42.5	48.7	100.8	--
52 UPHOLSTERY [a]								
1983	366.8	261.3	4.9	39.5	100.5	116.4	90.9	14.6
1984	374.3	248.3	5.9	38.9	83.3	120.2	109.7	16.3
1985	400.8	261.3	0.4	36.7	104.6	119.6	125.9	13.6
1986	381.8	229.3	0.4	44.3	92.0	92.6	139.2	13.3
1987	469.7	290.5	0.1	53.2	114.3	122.9	165.3	13.9
OTHER HOME FURNISHINGS [a]								
1983	72.6	47.3	2.3	0.9	16.3	27.8	25.3	--
1984	100.6	74.5	2.7	1.0	35.7	35.1	26.1	--
1985	r129.9	108.0	2.2	6.4	48.8	50.6	r21.9	--
1986	r83.2	62.2	--	1.0	18.1	43.1	r21.0	--
1987	20.8	1.5	0.5	1.0	--	--	19.3	--

TABLE 9:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
50 TOTAL CARPETS & RUGS [a]								
1983	2206.8	2179.9	--	0.6	1064.6	1114.7	14.0	12.9
1984	2287.1	2258.4	--	0.7	1162.1	1095.6	14.3	14.4
1985	r2564.7	r2538.0	--	1.3	1398.5	1138.2	r14.8	11.9
1986	r2800.2	2767.0	--	1.5	1535.2	1230.3	r15.8	r17.4
1987	2974.5	2933.6	--	0.8	1613.7	1319.1	17.4	23.5
50a FACE YARNS [a]								
1983	1960.9	1941.1	--	0.6	865.8	1074.7	6.9	12.9
1984	1976.6	1954.5	--	0.7	934.3	1019.5	7.7	14.4
1985	r2134.3	2112.2	--	1.3	1043.9	1067.0	r10.2	11.9
1986	r2306.4	2277.9	--	1.5	1131.1	1145.3	r11.1	r17.4
1987	2465.6	2429.3	--	0.8	1188.4	1240.1	12.8	23.5
50b BACKING [a]								
1983	245.9	238.8	--	--	198.8	40.0	7.1	--
1984	310.5	303.9	--	--	227.8	76.1	6.6	--
1985	r430.4	425.8	--	--	354.6	71.2	r4.6	--
1986	r493.8	489.1	--	--	404.1	85.0	r4.7	--
1987	508.9	504.3	--	--	425.3	79.0	4.6	--

FOOTNOTES FOR BOTH TABLE 8 & TABLE 9:
Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***
NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.
For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 210.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS
INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL INDUSTRIAL & OTHER CONSUMER								
1983	2434.2	2038.2	22.5	173.3	987.1	855.3	382.0	14.0
1984	2505.3	2108.2	27.9	159.4	998.2	922.7	376.1	21.0
1985	r2468.3	2080.2	30.6	161.9	968.6	919.1	r375.0	13.1
1986	r2620.5	r2237.7	28.1	175.9	r1107.0	926.7	r369.4	r13.4
1987	2621.1	2234.5	22.0	166.6	1063.1	982.8	373.2	13.4
65 TIRES*								
1983	335.8	331.8	11.0	--	320.8	--	4.0	--
1984	368.5	364.8	14.0	--	350.8	--	3.7	--
1985	314.7	311.4	9.8	--	301.6	--	3.3	--
1986	r300.1	297.6	9.0	--	288.6	--	r2.5	--
1987	316.6	313.9	8.1	--	305.8	--	2.7	--
66 HOSE*								
1983	27.5	24.8	6.5	--	15.7	2.6	2.7	--
1984	33.0	30.1	8.0	--	19.5	2.6	2.9	--
1985	29.3	27.3	11.8	--	15.1	0.4	2.0	--
1986	r29.3	27.6	11.0	--	15.9	0.7	r1.7	--
1987	29.2	27.5	9.4	--	17.2	0.9	1.7	--
67 BELTING*								
1983	53.6	44.5	1.9	--	28.0	14.6	9.1	--
1984	60.1	50.7	3.0	--	31.4	16.3	9.4	--
1985	43.5	32.7	2.5	--	24.3	5.9	10.8	--
1986	r41.7	31.1	3.1	--	23.3	4.7	r10.6	--
1987	47.5	37.0	2.5	--	26.6	7.9	10.5	--
61 MEDICAL, SURGICAL & SANITARY*								
1983	339.3	250.3	--	114.3	46.5	89.5	89.0	--
1984	328.6	241.6	--	116.1	54.0	71.5	87.0	--
1985	r299.4	219.3	--	105.9	58.7	54.7	r80.1	--
1986	r351.4	269.8	--	123.4	94.4	52.0	r81.6	--
1987	332.2	253.9	--	75.5	102.4	76.0	78.3	--
79b UNALLOCATED NONWOVENS*								
1983	136.6	136.6	--	6.9	--	129.7	--	--
1984	189.2	189.2	--	3.0	--	186.2	--	--
1985	224.4	224.4	--	12.9	--	211.5	--	--
1986	257.5	257.5	--	14.9	--	242.6	--	--
1987	339.3	339.3	--	50.5	--	288.8	--	--
79a FIBERFILL, STUFFING & FLOCK*								
1983	331.7	331.7	--	7.4	--	324.3	--	--
1984	321.4	321.4	--	4.1	--	317.3	--	--
1985	354.9	354.9	--	6.5	--	348.4	--	--
1986	368.7	368.7	--	3.1	--	365.6	--	--
1987	403.8	403.8	--	0.4	--	403.4	--	--
70 FELTS*								
1983	27.0	12.7	--	3.5	3.9	5.3	1.3	13.0
1984	34.7	13.5	--	3.5	4.0	6.0	1.2	20.0
1985	23.7	10.6	--	2.0	3.9	4.7	1.0	12.1
1986	r25.0	11.7	--	2.2	4.3	5.2	1.0	r12.3
1987	20.4	7.1	--	3.2	3.9	8.1	1.0	12.3
71 FILTRATION*								
1983	34.2	29.0	--	1.3	3.8	23.9	5.2	--
1984	34.3	29.5	--	3.3	4.8	21.4	4.8	--
1985	r37.4	32.8	--	3.2	5.2	24.4	r4.6	--
1986	r37.2	32.7	--	4.6	4.1	24.0	r4.5	--
1987	32.7	28.3	--	8.3	3.5	16.5	4.4	--

For all lettered and general footnotes to this table and the Apparel, Home Furnishings and Floor Covering tables, please see page 210.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE[a] (CONTINUED)

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
73 ROPE, CORDAGE, FISHLINE, ETC*								
1983	170.0	152.2	0.8	0.6	138.3	12.5	17.8	--
1984	186.5	170.9	1.0	0.3	157.1	12.5	15.6	--
1985	184.3	168.9	0.6	0.4	157.3	10.6	15.4	--
1986	r189.0	175.1	0.4	1.7	155.7	17.3	r13.9	--
1987	181.9	167.9	0.9	0.5	158.0	8.5	14.0	--
72 SEWING THREAD*								
1983	133.8	76.3	c	7.6	50.0	18.7	57.5	--
1984	123.6	72.2	c	5.2	51.1	15.9	51.4	--
1985	r126.9	84.1	0.4	6.7	60.4	17.0	r42.8	--
1986	r126.6	r84.2	0.4	3.9	r63.5	16.8	r42.4	--
1987	145.0	94.5	0.4	4.1	69.4	21.0	50.5	--
76 PAPER & TAPE REINFORCING*								
1983	5.7	2.3	c	0.4	0.6	1.3	3.4	--
1984	11.1	7.4	0.3	0.4	2.7	4.0	3.7	--
1985	6.8	3.9	1.8	0.4	1.7	--	2.9	--
1986	r5.4	3.4	0.9	0.1	2.4	c	r2.0	--
1987	6.7	4.7	0.7	0.7	2.5	0.8	2.0	--
69,77 ELECTRICAL & REINFORCED PLASTICS*								
1983	29.9	4.9	--	--	4.9	c	25.0	--
1984	30.2	5.2	0.2	--	5.0	c	25.0	--
1985	31.3	6.3	0.1	--	6.2	--	25.0	--
1986	29.1	4.1	c	--	3.9	0.2	25.0	--
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	--
75 COATED & PROTECTIVE FABRICS*								
1983	228.1	177.9	--	10.6	46.2	121.1	50.2	--
1984	251.2	194.2	--	10.5	55.0	128.7	57.0	--
1985	r193.0	135.6	--	10.2	43.9	81.5	r57.4	--
1986	r192.4	136.2	--	11.6	47.0	77.6	r56.2	--
1987	184.4	126.0	--	3.8	57.2	65.0	58.4	--
63-64 TRANSPORATION FABRIC*								
1983	63.5	53.5	--	0.6	32.3	20.6	10.0	--
1984	73.1	61.4	--	1.1	36.5	23.8	11.7	--
1985	85.4	74.2	--	0.8	53.9	19.5	11.2	--
1986	r83.0	72.4	--	1.0	50.5	20.9	r10.6	--
1987	96.6	86.9	--	0.8	53.5	32.6	9.7	--
56c NARROW FABRICS*								
1983	100.8	88.8	1.0	--	86.6	1.2	12.0	--
1984	110.9	98.1	0.9	--	96.9	0.3	12.8	--
1985	105.5	93.0	--	--	93.0	c	12.5	--
1986	118.4	105.3	--	--	105.3	--	13.1	--
1987	117.8	104.1	--	--	104.1	--	13.7	--
74 BAGS & BAGGING*								
1983	75.3	69.5	--	--	67.5	2.0	5.8	--
1984	46.6	41.3	--	--	40.5	0.8	5.3	--
1985	60.2	55.1	--	--	54.5	0.6	5.1	--
1986	58.0	53.0	--	--	52.2	0.8	5.0	--
1987	62.4	57.6	--	0.3	54.8	2.5	4.8	--
MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS*								
1983	341.4	251.4	1.3	20.1	142.0	88.0	89.0	1.0
1984	302.3	216.7	0.5	11.9	88.9	115.4	84.6	1.0
1985	r347.2	245.3	3.6	12.9	88.9	139.9	r100.9	1.0
1986	r407.3	306.9	3.3	9.4	195.9	98.3	r99.3	1.1
1987	265.7	168.1	--	18.1	100.0	50.0	96.5	1.1

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 203-209

Units are in million pounds.

-- Little, or none, of the fiber is used.

* When an asterisk appears, there is a footnote at the end of the table.

a. This letter in the title of each table refers the reader to these notes.

b. Man-made fiber end use in these tables is divided between Cellulosic (rayon+acetate fibers) and Noncellulosic (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 212. Certain waste quantities, which are tabulated with staple, are included; see text on page 199.

The noncellulosic fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester and vinyon fibers through 1986.

c. Less than 50,000 pounds, i.e., nominal.

d. The staple data are tabulated in the yarn column.

e. The yarn data are tabulated in the staple column.

r. This data shows a significant revision compared with the September 1987 ***Textile Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 204-205

For all lettered and general footnotes to this table, see notes above.

40. SHEER HOSIERY:
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. ANKLETS & SOCKS:
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. SWEATERS (MW):
Knitted sweater shirts, pullover, coat & cardigan types, both full-fashioned and cut and sewn. Also note Item 57.

57. CRAFT & HANDWORK YARNS:
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, crewl and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. UNDERWEAR & NIGHTWEAR (M):
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleep coats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. ROBES & LOUNGEWEAR (MW):
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. HIGH PILE FABRICS:
Include all applications. End uses such as coatings, collar trims, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. FABRICS FOR LINING:
All man-made fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series includes main linings, interlinings, zip-in linings (except pile), pocketings and bandings and waistbands as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. APPAREL LACE:
Nets and veilings.

56a. NARROW FABRICS: ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home furnishings and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Man-made fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME FURNISHING ITEMS

PAGES 206-207

For all lettered and general footnotes to this table, see page 210.

HOME FURNISHINGS:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the man-made fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 199 regarding the inclusion of certain man-made fiber waste quantities here. Certain felt quantities are in Item 70.

45. BEDSPREADS:
Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. BLANKETS & BLANKETING:
Woven, knitted, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. SHEETS:
Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads, mattress pads, mattresses & innersprings, civilian cots and sleeping bags. Mattress felts are in Item 70. The man-made staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The man-made filament is chiefly polyester for bed ticking.

48. TOWELS & TOWELING:
Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. NARROW FABRICS:
Only home furnishings applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. CURTAINS & DRAPERY:
Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Furnishings.

52. UPHOLSTERY:
Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME FURNISHINGS:
Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the man-made fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS

PAGE 207

For all lettered and general footnotes to this table, see page 210.

50. CARPETS & RUGS FACE FIBER (TOTAL):
Sum of 50a & 50b.

50a. FACE YARNS:
Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods, transportation carpeting, scatter rugs, bath mats and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor-outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. CARPET BACKING FIBERS:
The Cellulosic Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+ film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER-TYPE ITEMS

PAGES 208-209

For all lettered and general footnotes to this table, see page 210.

56c. NARROW FABRICS:
Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, and outdoor furniture webs. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. MEDICAL, SURGICAL & SANITARY:
Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. TRANSPORTATION FABRIC:
Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. It does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. The man-made fiber used for substrates for automotive fabric is included in Item 75.

Notes for Industrial & Other Consumer-Type Items (Continued)

65. TIRES:
All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flipper fabric, breaker strips, bead wraps, etc.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1983-1987 inclusive is estimated as follows: 219.2, 300.5, 317.6, 327.0 & 349.0. However, these quantities are **not included** in Item 65.

66. HOSE:
Fire, chemical, fuel, etc. Does not include braided vacuum cleaner hose.

67. BELTING:
Includes flat conveyor & transmission belts (both rubberized and nonrubberized) and V-belts.

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:
The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. FELTS:
Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION:
Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD:
Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**
Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING:
Man-made Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS:
For the man-made fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Man-made fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING:
Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK:
All applications (apparel, home furnishings & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1983-1987 inclusive was: 276.5, 277.7, 282.5, 296.0 & 349.5. For the same years, use of polyester waste for stuffing and filling materials was: 30.4, 24.8, 50.9, 60.3 & 64.5.

79b. UNALLOCATED NONWOVENS:
All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:
The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

TABLE 11:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0						0	244
BRAZIL	54	0	28	55	28	13	69						247	314
CANADA	426	481	507	292	592	827	427						3552	1783
GERMANY, FED. REP.	353	635	281	227	388	313	358						2555	2649
JAPAN	277	131	45	121	62	63	54						753	407
MEXICO	62	53	18	81	70	68	115						467	234
NETHERLANDS	190	229	228	289	142	104	176						1358	516
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35						357	47
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**						**9289**	**6194**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355	1551	1309						7846	6969
ITALY	34	73	19	0	33	0	39						198	372
JAPAN	99	0	91	46	37	68	101						442	631
SWEDEN	0	41	45	0	20	0	0						106	219
UNITED KINGDOM	57	0	79	54	0	24	113						327	231
ALL OTHER COUNTRIES [b]	28	0	10	51	43	+	70						202	115
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**						**9121**	**8537**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803						6617	6077
BRAZIL	0	7	0	199	169	109	92						576	3
CANADA	1448	1872	2220	2156	2451	1677	1568						13392	10526
COSTA RICA	606	570	654	533	514	523	692						4092	4214
DENMARK	0	0	0	0	61	30	60						151	185
FRANCE	767	588	716	338	272	712	642						4035	3993
GERMANY, FED. REP.	1074	1355	1968	1078	1495	1146	1130						9246	14198
IRELAND	37	34	74	114	150	78	192						679	378
ISRAEL	388	309	123	304	182	254	273						1833	1317
ITALY	761	811	177	1678	942	412	1403						6184	7559
JAPAN	648	212	729	277	282	338	304						2790	4489
KOREA, REP. OF	3	23	33	63	0	40	1						163	214
MEXICO	1428	2004	1547	978	1622	1660	1545						10784	12030
NETHERLANDS	49	42	26	31	57	4	16						225	804
ROMANIA	12	58	40	160	122	519	0						911	81
SINGAPORE	81	41	44	19	34	35	23						277	276
TAIWAN	12	26	12	53	69	34	70						276	327
UNITED KINGDOM	676	753	220	632	917	751	819						4768	4832
ALL OTHER COUNTRIES [c]	192	179	167	58	54	156	147						953	1626
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**						**67952**	**73129**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506						4684	1010
AUSTRALIA	38	0	36	19	0	693	46						832	63
BELGIUM	35	0	18	18	634	0	18						723	147
BRAZIL	0	0	0	499	0	0	0						499	1612
CANADA	2003	2183	2981	2221	2797	1824	2353						16362	19113
FRANCE	934	799	800	957	1257	934	826						6507	4652
GERMANY, FED. REP.	2738	3040	2503	2478	3319	2475	2793						19346	16124
INDIA	0	0	0	0	2575	2050	1556						6181	1
IRELAND	80	123	162	325	422	240	362						1714	544
ITALY	130	362	145	241	5	37	44						964	8760
JAPAN	1963	2057	1894	2166	1912	3095	1771						14858	13798
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058						10864	6460
MALAYSIA	0	95	48	48	0	95	48						334	420
MEXICO	303	549	210	502	985	1043	822						4414	11970
ROMANIA	448	0	86	664	230	893	0						2321	2712
SWITZERLAND	102	21	153	189	123	122	160						870	663
TAIWAN	1986	1109	1425	1112	1024	1384	549						8589	13150
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184						11908	8463
ALL OTHER COUNTRIES [d]	22	30	12	85	0	19	146						314	790
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**	**16651**	**18734**	**15242**						**112284**	**110452**

\+ Less than 1 thousand pounds.

a. Singapore 97, United Kingdom 90, France 64, Korea, Rep. of 51, Morocco 46, Italy 7, Taiwan 2.

b. Austria 111, France 61, Australia 25, Germany, Fed. Rep. 2, Mexico 2, Belgium 1.

c. Spain 219, Chile 201, Sweden 102, Norway 97, Australia 89, Argentina 83, Turkey 68, Switzerland 56, Austria 20, China, PRC 11, Hong Kong 6, Vatican City 1, Egypt, Greece, India.

d. Israel 93, New Caledonia 70, Finland 57, Netherlands 40, Hong Kong 36, Spain 8, China, PRC 5, Egypt 3, Portugal 2, Philippines.

TABLE 12:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	61						159	290
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1173						8641	5859
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0						2	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0						487	40
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**						**9289**	**6194**
STAPLE	309.4320 & .4325	1182	888	1107	934	1354	1492	1406						8363	8185
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134	151	226						758	352
SUBTOTAL ABOVE		**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**						9121	8537
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0	0	0						+	28
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175						1614	1026
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980						11227	17224
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1033						8371	9143
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882	1811	2313						14729	11829
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672	1267	1216						9727	14302
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707	1719	1981						12582	12060
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418						4985	4017
MONOFILAMENTS	309.0200 & .0330 [c]	381	384	307	374	454	483	380						2763	2061
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432	270	284						1954	1467
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**						67952	73129
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468						11491	25488
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498	8268	6130						41867	39701
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257						9026	8860
- OLEFIN	309.4371	83	104	534	498	165	174	40						1598	321
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1907	1239						10848	7264
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091	3619	3596						24469	18034
POLYESTER	309.3040 & .3340	441	215	65	421	305	376	426						2249	2172
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1698	992						9651	7434
OTHER	309.3065 & .3365	106	33	159	24	638	31	94						1085	1178
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**						112284	110452
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716						15080	16053
- POLYESTER	309.6630	550	487	1073	637	470	1233	716						5166	6179
- ACRYLIC	309.6645	0	0	21	110	0	2	0						133	150
- OTHER	309.6660	221	273	392	157	271	260	101						1675	3326
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0	0	0						113	31
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286						3084	3007
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**	**3498**	**4042**	**2819**						25251	28646
TOTAL MAN-MADE ABOVE		**31024**	**29880**	**31673**	**31092**	**34528**	**34993**	**30707**						223897	226986
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0						+	2
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276	176	197						1499	2625
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19	22	15						131	316
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338	303	255						2028	1889
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94	74	112						597	930
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219	2781	174						12129	24857
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629	1099	2762						12644	14527
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661	789	600						5153	5335
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359						2213	3750
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271	2344	2110						14854	13021
GRAND TOTAL ABOVE		**39746**	**36972**	**37742**	**38363**	**42269**	**42762**	**37291**						275145	294336

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

\+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, .1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 13:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11						143	334
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582						6532	3410
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0						220	41
STRIPS	309.2210	0	23	0	0	10	2	0						35	60
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**	**593**						**6930**	**3845**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615						12643	20804
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209						1245	937
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**	**1824**						**13888**	**21741**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**	**432**						**1415**	**718**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391						30995	18612
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344						52777	46656
- OTHER	310.0029	786	1111	2189	1186	1068	819	1072						8231	5187
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371						19291	16302
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534						15007	14709
- OTHER [d]	310.0034	207	225	265	284	135	68	239						1423	1104
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720						12213	9994
- OLEFIN	310.0040	83	626	121	143	161	160	258						1552	323
- OTHER	310.0044	360	729	886	802	688	699	507						4671	4038
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289						4319	3761
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992						13135	5501
OTHER	309.0170	680	901	768	769	847	603	553						5121	4202
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346						2520	2596
SUBTOTAL ABOVE		**21080**	**26063**	**28149**	**23313**	**24529**	**22505**	**25616**						**171255**	**132985**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575						11128	12922
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750						78363	106885
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350						77501	27710
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1663						13268	13261
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358						13967	24654
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639						3984	2811
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953	1230						11528	12440
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267	3498	2338	3049						23610	14137
SUBTOTAL ABOVE		**43649**	**29296**	**40428**	**26324**	**35250**	**26768**	**31634**						**233349**	**214820**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489						9551	6974
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829						33102	32401
- ACRYLIC	309.7640	312	1219	923	676	970	795	671						5566	6011
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019						23892	20340
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**	**9008**						**72111**	**65726**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**	**62680**	**74856**	**64505**	**69107**						**498948**	**439835**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712						61228	49040
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**	**71614**	**81995**	**72669**	**78819**						**560176**	**488875**

SOURCE: U.S. Census Bureau Report EM522.

\+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 14:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6					143.0	123.1
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1					280.3	269.7
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**					**423.3**	**392.8**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8					251.0	251.4
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.7					643.2	637.1
- TEXTILE[f]	30.0	31.2	34.5	31.7	32.0	32.6	27.7	32.5					252.2	252.9
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0					237.8	221.9
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7					552.6	558.8
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	103.6					802.0	730.0
TOTAL YARN	**316.7**	**343.1**	**354.7**	**352.9**	**348.9**	**349.9**	**322.3**	**350.3**					**2738.8**	**2652.1**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2	75.0	90.0					636.2	675.5
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2					390.4	400.2
POLYESTER	190.4	202.4	198.5	212.1	195.8	195.7	185.2	195.7					1575.8	1547.6
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1					241.8	238.3
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**	**350.5**	**354.7**	**329.2**	**371.0**					**2844.2**	**2861.6**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**722.7**	**711.2**	**699.4**	**704.6**	**651.5**	**721.3**					**5583.0**	**5513.7**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**766.1**	**754.1**	**758.3**	**699.7**	**776.0**					**6006.3**	**5906.5**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6					11.6	13.3
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7					13.7	21.2
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**					**25.3**	**34.5**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4					30.4	24.9
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9					61.9	49.3
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7	47.8	51.9	51.4					51.4	47.0
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4					32.4	28.1
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4					94.4	85.0
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7					53.7	55.7
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.6**	**308.8**	**310.5**	**341.0**	**324.2**					**324.2**	**290.0**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6					60.6	61.6
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3					67.3	70.0
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9					194.9	180.6
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4					38.4	32.9
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**					**361.2**	**345.1**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**618.5**	**637.6**	**653.4**	**724.5**	**685.4**					**685.4**	**635.1**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**650.5**	**666.9**	**679.2**	**753.7**	**710.7**					**710.7**	**669.6**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.0							74.5	82.9
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1							8.4	6.2
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.1							82.9	89.1
RAW COTTON	300.0	311.4	339.3	278.0	302.6	294.1							1825.4	1863.9

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.